

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=7; day=10; hr=15; min=6; sec=47; ms=591;]

=====

Application No: 10566598 Version No: 1.0

Input Set:

Output Set:

Started: 2008-07-10 14:19:25.699

Finished: 2008-07-10 14:19:25.755

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 56 ms

Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 4

Actual SeqID Count: 4

SEQUENCE LISTING

<110> University of Tennessee Research Foundation
Mullin, Beth C.
Gupta, Rakesh
Dobritsa, Svetlana V.

<120> Novel Plant Glycine and Histidine-Rich Metal-Binding Protein
Family and Uses Thereof

<130> UTR-108XC1 PCT

<140> 10566598
<141> 2008-07-10

<150> US 60/491,939
<151> 2003-08-01

<160> 4

<170> PatentIn version 3.2

<210> 1
<211> 99
<212> PRT
<213> Alnus glutinosa

<220>
<221> MISC_FEATURE
<222> (1)..(26)
<223> signal sequence or signal peptide

<220>
<221> MISC_FEATURE
<222> (50)..(83)
<223> metal binding domain

<400> 1

Met Gly Tyr Ser Lys Thr Phe Leu Leu Leu Gly Leu Ala Phe Ala Val
1 5 10 15

Val Leu Leu Ile Ser Ser Asp Val Ser Ala Ser Glu Leu Ala Val Ala
20 25 30

Ala Gln Thr Lys Glu Asn Met Gln Thr Asp Gly Val Glu Glu Asp Lys
35 40 45

Tyr His Gly His Arg His Val His Gly His Gly His Gly His Val His
50 55 60

Gly Asn Gly Asn Glu His Gly His Gly His His His Gly Arg Gly His
65 70 75 80

Pro Gly His Gly Ala Ala Ala Asp Glu Thr Glu Thr Glu Thr Glu Thr
85 90 95

Asn Gln Asn

<210> 2
<211> 655
<212> DNA
<213> Alnus glutinosa

<220>
<221> MISC_FEATURE
<222> (74)..(373)
<223> Coding sequence (positions (74)..(373))

<220>
<221> MISC_FEATURE
<222> (74)..(373)
<223> coding sequence (positions (74)..(373))

<400> 2
aattaatcat cttagagttt gtttccttag ctagtactac attgtctcca atcctcttca 60

ttgttaacga aaaatgggtt actccaagac ttttcttctc cttggccttg cctttgctgt 120

tgtgtctctc atctctctcg atgtctcagc ttctgagctt gctgttgccg ctcaaaccac 180

ggagaatatg caaactgacg gtgtggagga ggataagtat catggccatc gtcacgtgca 240

tggacatggg catggacatg tacatgggaa tgggaatgaa catggacatg gtcacaccca 300

cggccgtggt caccaggac acggtgctgc tgcagacgag acagaaaccg aaactgaaac 360

caaccaaata tagaccaatc ttttgattcg tcctatatat gctatcagtt gtacgtacgt 420

ctaagtgtgt ctaagtcgta atatgtggct taattatcta attaagcttg tatgccaata 480

aactttatgt ttctactttt gtcacgtgta atttttgctt ttctatgtat tacaatgtac 540

gctgtagcat atcaaaatta aacgaatcct ttgtcctata tatatatata tgcaactttt 600

gaaaggctgt acgtgaataa gattatattg gatgaatata tagtttatga attct 655

<210> 3
<211> 26
<212> PRT
<213> Alnus glutinosa

<220>
<221> MISC_FEATURE
<222> (1)..(26)
<223> signal sequence or signal peptide

<400> 3

Met Gly Tyr Ser Lys Thr Phe Leu Leu Leu Gly Leu Ala Phe Ala Val
1 5 10 15

Val Leu Leu Ile Ser Ser Asp Val Ser Ala
20 25

<210> 4
<211> 34
<212> PRT
<213> *Alnus glutinosa*

<220>
<221> MISC_FEATURE
<222> (1)..(34)
<223> metal binding domain

<400> 4

His Gly His Arg His Val His Gly His Gly His Gly His Val His Gly
1 5 10 15

Asn Gly Asn Glu His Gly His Gly His His His Gly Arg Gly His Pro
20 25 30

Gly His